

VIA EMAIL

October 12, 2012
File No. 04.0029307.00



Mr. Bruce Kudrick
Superintendent, Hooksett Sewer Commission
Town of Hooksett
1 Egawes Drive
Hooksett, New Hampshire 03106

Re: Wastewater Discharge Monitoring Report
September 2012
Merrimack Station
Public Service Company of New Hampshire
Bow, New Hampshire

380 Harvey Road
Manchester
New Hampshire
03103-3347
603-623-3600
FAX 603-624-9463
www.gza.com

Dear Bruce:

On behalf of Public Service Company of New Hampshire (PSNH), GZA GeoEnvironmental, Inc. is pleased to submit the attached **Wastewater Discharge Monitoring Report (DMR)** for the period September 1, 2012 through September 30, 2012. Wastewater flow was approximately 24,000 gallons for the monitoring period and was estimated based on the actual number of tanker trucks sent to the Hooksett Wastewater Treatment Facility (Hooksett) in September and assumed full tanker capacity (i.e., 8,000 gallons). **Table 1** included in the Wastewater DMR summarizes the data contained in the attached **Analytical Data Report** for the distillate sample collected on September 6, 2012. Distillate was the only approved waste stream discharged to Hooksett in September 2012 as authorized under Waste Disposal Agreement WDA-001.

Should you have any questions concerning this report, please do not hesitate to contact me at (603) 232-8744.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

A handwritten signature in black ink that reads "Ronald A. Breton". The signature is written in a cursive, flowing style.

Ronald A. Breton, P.E.
Senior Principal

RAB:rk1

P:\04Jobs\0029300s\04.0029307.00\Work\SAMPLING AND REPORTING\REPORTS\Hooksett\Monthly\Sept 2012\FINAL Hooksett SEPT RPT 101212.docx

Attachments: Wastewater Discharge Monitoring Report
Analytical Data Report

WASTEWATER DISCHARGE MONITORING REPORT

FACILITY INFORMATION

Company Name: Public Service Company of New Hampshire - Merrimack Station
Company Owner: Public Service Company of New Hampshire
Facility Address: 97 River Road
Facility Contact: Brad Owens
Telephone: (603) 224-4081

MONITORING REPORT

Submittal Date: 10/12/2012
Monitoring Point: Truck loading station
Reporting Period: September 2012

SAMPLE ANALYSIS

Certified Analytical Laboratory: Eastern Analytical Inc. (EAI) Certification Number 1012
Authorized Representative: Lorraine Olashaw
Analytical Subcontractor: Phoenix Environmental Laboratories, Inc. Certification Number 213693-A,B

SAMPLE COLLECTION


Sampler: Ken Kroh, PSNH
Sample Type: Grab
Sample Date: 9/6/2012 Sample Time 4:14 PM
pH: 7.87
Waste Stream: Distillate

CATEGORICAL PRETREATMENT STANDARDS

40 CFR 423.16: Steam Electric Power Generating Category
NOTE: There are no numerical pretreatment standards for this source

CERTIFICATION STATEMENT

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Brad Owens
Printed Name of Authorized Representative

Signature of Authorized Representative

Station Manager
Title
10/11/2012
Date

**WASTEWATER DISCHARGE MONITORING REPORT
HOOKSETT WASTEWATER TREATMENT PLANT**

Public Service Company of New Hampshire - Merrimack Station
Waste Disposal Agreement No. WDA-001
Issued October 1, 2011
Expires September 30, 2012

Permitted Flow: 70,000 gallons per day

FLOW DATA

Daily Flow Rate	8,000	gallons (average of actual discharge days)
Monitoring Period Flow	24,000	gallons (9/01/12 - 9/30/12)

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Public Service Company of New Hampshire

Merrimack Station

Bow, New Hampshire

PARAMETER	DISTILLATE RESULTS 9/6/12 (mg/L)
Arsenic	0.006
Chloride	130
Chromium (T)	0.001
Lead	<0.001
Mercury	<0.0002
pH	7.87
Selenium	0.020
TSS	<5

ANALYTICAL DATA REPORT

Paul Pepler
GZA GeoEnvironmental, Inc. (NH)
380 Harvey Road
Manchester, NH 03103



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 113936
Client Identification: PSNH-MK
Date Received: 9/10/2012

Dear Mr. Pepler:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted

< : "less than" followed by the reporting limit

> : "greater than" followed by the reporting limit

%R : % Recovery


Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

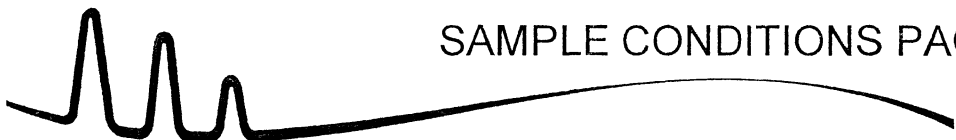
We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

9.17.12
Date

11
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 113936

Client: GZA GeoEnvironmental, Inc. (NH)

Client Designation: PSNH-MK

Temperature upon receipt (°C): 2.1

Received on ice or cold packs (Yes/No): Y

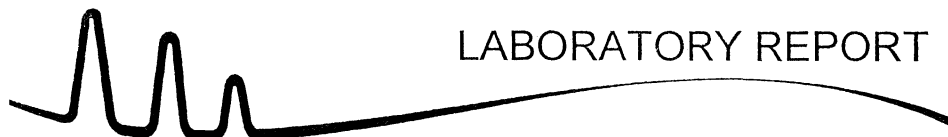
Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date	Date	Sample	% Dry	Exceptions/Comments (other than thermal preservation)
		Received	Sampled	Matrix	Weight	
113936.01	Distillate	9/10/12	9/6/12	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



LABORATORY REPORT

EAI ID#: 113936

Client: GZA GeoEnvironmental, Inc. (NH)
Client Designation: PSNH-MK

Sample ID: Distillate

Lab Sample ID: 113936.01

Matrix: aqueous

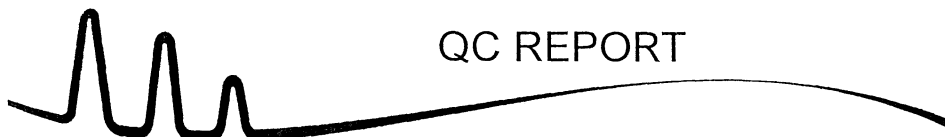
Date Sampled: 9/6/12

Date Received: 9/10/12

Solids Suspended < 5

Chloride 130

Analysis				
Units	Date	Time	Method	Analyst
mg/L	9/11/12	13:30	2540D	SCW
mg/L	9/12/12	16:15	4500CIE	KD



QC REPORT

EAI ID#: 113936

Client: **GZA GeoEnvironmental, Inc. (NH)**

Client Designation: **PSNH-MK**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Solids Suspended	< 5	97 (97 %R)		mg/L	9/11/12	90 - 110		2540D
Chloride	< 1	26 (104 %R)	26 (104 %R) (0 RPD)	mg/L	9/12/12	90 - 110	20	4500CIE

Samples were analyzed within holding times unless noted on the sample results page.

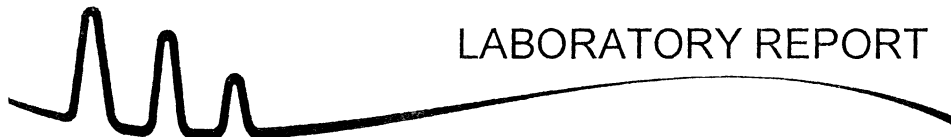
Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

Exceptions to the above statements are flagged or noted above or on the QC Narrative page.

*! Flagged analyte recoveries deviated from the QA/QC limits.



LABORATORY REPORT

EAI ID#: 113936

Client: **GZA GeoEnvironmental, Inc. (NH)**

Client Designation: **PSNH-MK**

Sample ID: Distillate

Lab Sample ID: 113936.01

Matrix: aqueous

Date Sampled: 9/6/12

Date Received: 9/10/12

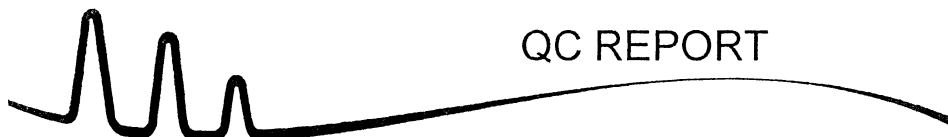
Arsenic 0.006

Chromium 0.001

Lead < 0.001

Selenium 0.020

Analytical Matrix	Units	Date of Analysis	Method	Analyst
AqTot	mg/L	9/13/12	200.8	DS
AqTot	mg/L	9/13/12	200.8	DS
AqTot	mg/L	9/13/12	200.8	DS
AqTot	mg/L	9/13/12	200.8	DS



QC REPORT

EAI ID#: 113936

Client: GZA GeoEnvironmental, Inc. (NH)

Client Designation: PSNH-MK

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.001	0.93 (93 %R)		mg/L	9/13/12	85 - 115	20	200.8
Chromium	< 0.001	0.97 (97 %R)		mg/L	9/13/12	85 - 115	20	200.8
Lead	< 0.001	0.99 (99 %R)		mg/L	9/13/12	85 - 115	20	200.8
Selenium	< 0.001	1.0 (101 %R)		mg/L	9/13/12	85 - 115	20	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	MSD	Units	Date of Analysis	Limits	RPD	Method
Arsenic	114034.06	< 0.001	0.91 (91 %R)	0.92 (92 %R) (1 RPD)	mg/L	9/13/12	70-130	20	200.8
Chromium	114034.06	< 0.001	0.90 (90 %R)	0.92 (92 %R) (2 RPD)	mg/L	9/13/12	70-130	20	200.8
Lead	114034.06	< 0.001	0.98 (98 %R)	0.99 (99 %R) (1 RPD)	mg/L	9/13/12	70-130	20	200.8
Selenium	114034.06	0.001	0.97 (97 %R)	0.96 (96 %R) (1 RPD)	mg/L	9/13/12	70-130	20	200.8

Samples were analyzed within holding times unless noted on the sample results page.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

Exceptions to the above statements are flagged or noted above or on the QC Narrative page.

*! Flagged analyte recoveries deviated from the QA/QC limits.



Friday, September 14, 2012

Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Project ID: 3902
Sample ID#s: BC66237

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

September 14, 2012

FOR: Attn: Front Office
Eastern Analytical
25 Chenell Drive
Concord, NH 03301

Sample Information

Matrix: WATER
Location Code: EASTANAL
Rush Request: Standard
P.O.#: 39364

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
09/06/12	16:14
09/11/12	11:00

Laboratory Data

SDG ID: GBC66237
Phoenix ID: BC66237

Project ID: 3902
Client ID: DISTILLATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Mercury	< 0.0002	0.0002	mg/L	09/12/12	RS	SW7470/245.1
Mercury Digestion	Completed			09/12/12	X/X	SW7470/245.1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

September 14, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

September 14, 2012

QA/QC Data

SDG I.D.: GBC66237

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 209045, QC Sample No: BC65794 (BC66237)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	100	91.0	9.4	91.0	89.4	1.8	70 - 130	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

September 14, 2012

Friday, September 14, 2012

Requested Criteria: None

State: NH

Sample Criteria Exceedences Report
GBC66237 - EASTANAL

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

CHAIN-OF-CUSTODY RECORD

eastern analytical
professional laboratory services

1000
10

EAI SRB# 113936

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
Distillate	9/6/2012 16:14	aqueous	Mercury Cold Vapor (Phoenix)	66237

EAI SRB# 113936 Project State: NH
Project ID: 3902

Company Phoenix Environmental Labs

Address 587 East Middle Turnpike

Address Manchester, CT 06040

Account #

Phone # (860) 645-1102

Fax Number 860 645-0823

Results Needed by: Preferred date

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ P

Notes about project:

Email pdf of results and invoice to
customerservice@eailabs.com.

5th

Eastern Analytical Inc. PO Number: 39364

Please call prior to analyzing, if RUSH surcharges will be applied.

Samples Collected by:

Chris Johnson 9/10/12 1530 UPS

Relinquished by Date/Time Received by

UPS 9.11.12 11:00 Chris Johnson

Relinquished by Date/Time Received by

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525

1-800-287-0525

Fax: (603)228-4591

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)